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TI - Aminimides. IX. General synthesis of 1-substituted-2-imidazolidinones

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SO - J. Heterocycl. Chem. (1972), 9(3), 687-90

CODEN: JHTCAD

DT - Journal

LA - English

GI - For diagram(s), see printed CA Issue.

AB - Aminimides $\text{RNH}(\text{CH}_2)_2\text{-CON-N+Me}_2\text{R}_1$ [I; $\text{R}_1 = \text{Me}, \text{CH}_2\text{CH}(\text{OH})\text{Me}$] are thermolyzed in mesitylene or xylene to give about 10 1-substituted 2-imidazolidinones [II; $\text{R} = \text{alkyl}, \text{cycloalkyl}, \text{Ph}, \text{substituted phenyl}, \text{heteroaryl}, (\text{heteroaryl})\text{alkyl}$]. The I ($\text{R}_1 = \text{Me}$) are prepd. by the reaction of propionates $\text{RNH}(\text{CH}_2)_2\text{CO}_2\text{Me}$ (III) with $\text{H}_2\text{NN+Me}_3\text{Cl-}$. III react with H_2NNMe_2 and propylene oxide to give I [$\text{R}_1 = \text{CH}_2\text{CH}(\text{OH})\text{Me}$].

IT - 37732-87-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN - 37732-87-9 CAPLUS

CN - 2-Imidazolidinone, 1-(2-propenyl)- (9CI) (CA INDEX NAME)

H

N.

C . . C::::O:

C

.....N.

.CH2.....CH:::::CH2

RN 13584-76-4 CAPLUS

CN 4-Imidazolidinecarboxylic acid, 1-allyl-4,5,5-trimethyl-2-oxo- (8CI)
(CA INDEX NAME)

